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gister of its indications is printed in Franklin's appendix, and when contrasted with the register of the one in the bottle, shews the necessity of protecting the radiation thermometer by glass if the observations are to be continued in windy weather.

From Tables IV. V. and VI., the daily curve of the mean effect of the sun in May, July, and August, may be constructed, and the plate on which the curves are exhibited contains also the daily curve of temperature for the twenty-eight days of May on which the observations were made (30° being subtracted from the temperature at each hour). Table VII. is added to shew the effect of the sun in raising the temperature of the atmosphere between sunrise and one or two in the afternoon, the maximum temperature at the two latter hours being recorded.

As the observations are tolerably complete only for one month (May 1826), deductions from them as to the intensity or to the total effect of the sun's rays in the different seasons of the year would carry but little weight. I have, however, in Franklin's appendix, broached an opinion, that in the high northern latitudes of America, the average intensity of the heat of the sun is greater in the spring months than near the summer solstice, the greater clearness of the atmosphere compensating for the smaller altitude of the sun. This opinion is supported by the subjoined tables. In Table I., for instance, the means of the maxima indications of the radiation thermometer for February 1827 are nearly equal to those for May 1826, though the times of observation were so much more numerous in the latter month, and consequently there was more chance of ascertaining the true maximum on each day: they are also considerably above those for the first sixteen days of May 1827, when the observations were more frequent than in February. In March and April 1827, the means exceed those of February and May; and if they do not do so also in April 1826, it is to be attributed to the effect of the frequent winds in that month on the unsheltered radiation thermome-The column containing the monthly maxima of the ter. black-bulb thermometer also leads strongly to the same conclusion; and here the want of shelter is not so operative, as